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COMPLICATION RAITES FOLLOWING PEDIATRIC ADENOTONSILLECTOMY FOR SLEEP DISORDERED BREATHING WITH AND WITHOUT PRE-OPERATIVE POLYSOMNOGRAPHY



Background

dehydration, and respiratory events such as pulmonary edema or desaturations. PSG stratifies determine whether pediatric patients undergoing PSG prior to surgery for sleep disordered Obstructive sleep apnea (OSA) affects 1-5% of children. The diagnosis can be suspected children is adenotonsillectomy (T&A). Complications after T&A include bleeding, pain, the severity of OSA, which may affect post-operative management. Our study aimed to clinically or confirmed with polysomnography (PSG). First-line treatment of OSA in breathing (SDB) have similar complication rates as those that did not undergo PSG

Methods

visits or admissions for pain control, dehydration, respiratory distress or bleeding. Data was disordered breathing to see if they correlated with complication rates in children undergoing period at Brooke Army Medical Center (BAMC). Complications included emergency room A retrospective, cross-sectional cohort study was conducted in children, ages 2-17, who underwent an adenotonsillectomy with or without pre-operative PSG over an 18 month analyzed for patient characteristics and presence of a preoperative evaluation of sleep tonsillectomy. Chi-Squared tests were used to analyze relevant categorical data.

Table 2. Postoperative Complications Within 30 Days

Complication	Patients, No. (%) (n = 73) ^a
Infection ^b	42 (58)
Surgical site complication	20 (27)
Unplanned reintubation	5(7)
Substantial bleeding	5(7)
Prolonged ventilator use	3(4)
Other	3(4)

May not complic includes venous thromboembolic and renal complications.

Infection indicates pneumonia, urinary tract infection, sepsis, or shock.

Disclaimer

The view(s) expressed herein are those of the author(s) and do not reflect the official policy or position of Brooke Army Medical Center, the U.S. Army Medical Department, the U.S. Army Office of the Surgeon General, the Department of the Air Force, the Department of the Army or the Department of Defense or the U.S. Government. The voluntary, tilly informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02_AFI 40-402.

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Results

72 adenotonsillectomy cases were identified. Pre-operative polysomnography rate amongst our severity of OSA measured by increasing apnea-hypopnea index, but no statistical difference was respectively (p=0.002). There was a trend toward increased risk of complications based on the patient population was 67%. There was a statistical significance in the complication rate for found. There was no statistically significant difference in complication rate based on gender. those that underwent preoperative PSG compared to those that did not at 15.3% and 3.8%,

Conclusion

studies. There was a significant increased risk of complications in patients that had PSG prior to rates of complications. These findings contribute to the data regarding appropriate use of PSGs adenotonsillectomy, but increased OSA severity was not significantly correlated with higher The rate of pre-operative polysomnography within our cohort was higher than cited in other prior to adenotonsillectomy in children, but further research is needed to completely stratify

post-operative risk for these patients.